



CHUGOKU MARINE PAINTS, World leaders in Tin Free Anti-Fouling Technology

# 3rd generation silyl antifouling technology

## SEA GRANDPRIX MARK II

SELF-POLISHING, TIN FREE ANTIFOULING

SEA GRANDPRIX MARK II is a 3rd generation silyl/ hydrolysis antifouling coating developed by Chugoku Marine Paints which enhances performance, meeting emerging high demands for various vessel types. Moreover, it is sustainable for 36, 48, 60 months in service.

### History of silyl technology

<i>1st generation</i> (1995 - 2000)	<i>Typical silyl technology</i>
<i>2nd generation</i> (2001 - 2010)	<b>SEA GRANDPRIX 1000</b>
<i>3rd generation</i> (2011 - )	<b>SEA GRANDPRIX 1000 L</b> <b>SEA GRANDPRIX MARKII</b>

## 3rd generation (2011-) Silyl technology

- Long life performance up to 60 months
- Excellent static performance
- Excellent recoatability
- High volume solids for a hydrolysis type antifouling

SEA GRANDPRIX MARKII is classified as a 3rd generation silyl technology grandfathered from the highest performing silyl products from CMP.

IMO AFS CONF/26 Compliant  
- Class certificates -



After 36 months



After 60 months

(Typical outturns of CMP silyl technology)

CHUGOKU MARINE PAINTS, LTD.

**SELF-POLISHING,  
TIN FREE ANTIFOULING**

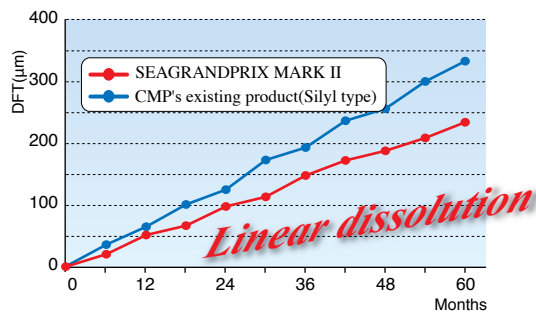
**SEA GRANDPRIX**

**MARK II**

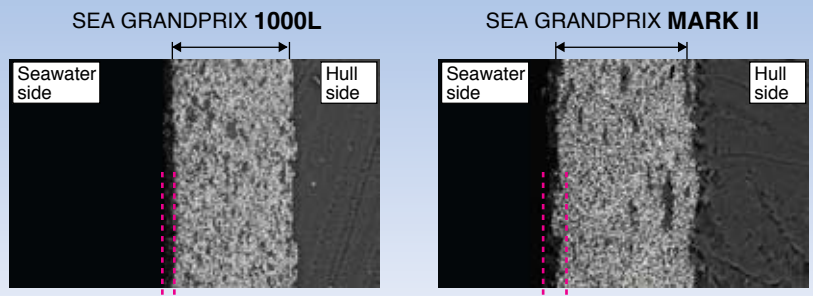


After 60 months  
(Typical outturns of CMP silyl technology)

**Comparison of polishing rate**



**Minimum depletion layer at active zone**



**Static performance**

		SEA GRANDPRIX 1000L	SEA GRANDPRIX MARK II
3 months	High Risk Area Sea water temp. 22 degrees centigrade		
3 months	Average Risk Area Sea water temp. 17 degrees centigrade		
11 months	Average Risk Area Sea water temp. 17 degrees centigrade		

**FIR THEORY**

SEA GRANDPRIX MARK II	7.1
SEA GRANDPRIX 1000L	5.6
SEAFLO NEO SL	2.1
Competitor's product Low friction type	9.3
Standard AF	12.0-15.0

*FIR translates into potential fuel savings when considered with vessel hull forms*

	SEA GRANDPRIX 1000L	SEA GRANDPRIX MARK II
	Rz = 77.6 RSm = 2797 <b>FIR 5.6%</b>	Rz = 87.4 RSm = 2834 <b>FIR 7.1%</b>

**FIR THEORY**

\*FIR(%) is shown to identify the Low Friction systems.

$$FIR(\%) = 2.62 \times \frac{Rz^2}{RSm}$$

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